IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A random number generator, comprising:

a counter circuit configured to be supplied with a clock signal and a random signal having a property in which a power spectrum intensity of said random signal decreases with increasing frequency, and to provide a count value of the clock signal with respect to a transition of the random signal; and

a first latch circuit configured to latch the count value with respect to the transition of the random signal, and to output a first random number signal[[; and]].

a source configured to provide said random signal.

wherein the counter circuit is a one-bit counter, the count value of which alternates between a high level and a low level every one count, the counter circuit having a clock enable input through which said random signal is supplied.

- 2. (Currently Amended) The random number generator of claim 1, wherein the random signal manifests a characteristic in which power spectrum intensity varies with an increase of frequency said source comprises an oscillation circuit including a RC delay eircuit.
 - 3. (Canceled).
- 4. (Original) The random number generator of claim 1, further comprising a second latch circuit configured to receive a random number acquisition clock signal having a constant period and the first random number signal, to latch the first random number signal

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with respect to a transition of the random number acquisition clock signal, and to provide a second random number signal.

- 5. (Original) The random number generator of claim 4, wherein the frequency of the random number acquisition clock is lower than the frequency of the random signal.
- 6. (Original) The random number generator of claim 4, wherein the transition of the random number acquisition clock signal represents a leading edge of the random number acquisition clock signal when the random number acquisition clock signal changes from a low level to a high level.
- 7. (Original) The random number generator of claim 1, wherein a pulse counter is accessible by the clock enable input, and the output of the pulse counter becomes the random signal.
- 8. (Original) The random number generator of claim 1, further comprising an inverter connected between the clock enable input side and a clock input side of the first latch circuit.
 - 9. (Canceled).
- 10. (Original) The random number generator of claim 1, wherein the first latch circuit is a D type flip-flop.
 - 11. (Withdrawn) A random number generator comprising:

an AND circuit configured to be supplied with a random signal and a clock signal, and to generate a logic product of the random signal and the clock signal;

a dividing latch circuit configured to provide alternately a high level signal and a low level signal with respect to the logic product output; and

a first latch circuit configured to latch the count value with respect to a transition of the random signal, and to provide a random number signal.

- 12. (Withdrawn) The random number generator of claim 11, wherein the random signal manifests a characteristic in which power spectrum intensity varies with an increase of frequency.
- 13. (Withdrawn) The random number generator of claim 11, wherein the random signal manifests a characteristic in which power spectrum intensity decreases with an increase of frequency.
- 14. (Withdrawn) The random number generator of claim 11, further comprising a second latch circuit configured to receive a random number acquisition clock signal having a constant period and the first random number signal, to latch the first random number signal with respect to a transition of the random number acquisition clock signal, and to provide a second random number signal.
- 15. (Withdrawn) The random number generator of claim 14, wherein the frequency of the random number acquisition clock is lower than the frequency of the random signal.

- 16. (Withdrawn) The random number generator of claim 14, wherein the transition of the random number acquisition clock signal represents a leading edge of the random number acquisition clock signal when the random number acquisition clock signal changes from a low level to a high level.
- 17. (Withdrawn) The random number generator of claim 11, further comprising a pulse counter being accessible by the clock enable input, wherein the output of the pulse counter becomes the random signal.
- 18. (Withdrawn) The random number generator of claim 11, wherein a period of the clock signal is less than a half of a on-state zone Tz which is obtained by subtracting a minimum on-state pulse width Tmin from a maximum on-state pulse width Tmax.
- 19. (Withdrawn) The random number generator of claim 11, further comprising an inverter connected between the first input side and a clock input side of the first latch circuit.
- 20. (Withdrawn) The random number generator of claim 11, wherein the first latch circuit is a J-K type flip-flop.
 - 21. (Canceled).
 - 22. (New) A random number generator, comprising:

a counter circuit configured to be supplied with a clock signal and a random signal, and to provide a counter value of the clock signal with respect to a transition of the random signal;

a first latch circuit configured to latch the count value with respect to the transition of the random signal, and to output a first random number signal; and

a source for the random signal adapted to produce said random signal having a characteristic in which power spectrum intensity decreases with increasing frequency,

wherein the source comprises an oscillation circuit using a delay time of a CR delay circuit, and wherein random variations of the resistance and capacitor values of the CR delay circuit are used for generating the random signal.

- 23. (New) The random number generator of claim 22, further comprising a second latch circuit configured to receive a random number acquisition clock signal having a constant period and the first random number signal, to latch the first random number signal with respect to a transition of the random number acquisition clock signal, and to provide a second random number signal.
- 24. (New) The random number generator of claim 23, wherein the frequency of the random number acquisition clock is lower than the frequency of the random signal.
- 25. (New) The random number generator of claim 23, wherein the transition of the random number acquisition clock signal represents a leading edge of the random number acquisition clock signal when the random number acquisition clock signal changes from a low level to a high level.
- 26. (New) The random number generator of claim 22, wherein a pulse counter is accessible by the clock enable input, and the output of the pulse counter becomes the random signal.

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27. (New) The random number generator of claim 22, further comprising an inverter connected between the clock enable input side and a clock input side of the first latch circuit.

28. (New) The random number generator of claim 22, wherein the first latch circuit is a D type flip-flop.